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Spring 2021

PHYS 203-002: The Earth in Space

George Georgiou

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The Earth in Space
Physics 203
Spring 2021

Section 002—Tuesday+Thursday 4-5:20
Section 102 – Thursday 6-8:50

Synchronous online class using WEBEX
<https://njit.webex.com/meet/georgiou>

Instructor

Dr. George E. Georgiou
george.e.georgiou@njit.edu

Office Hours: By appointment via webex

Canvas: canvas.njit.edu –Syllabus, Lecture Notes and Videos

Textbook

David McConnell and David Steer. *The Good Earth: Introduction to Earth Science*, Fourth Edition. McGraw-Hill Education, United States of America, 2018. (or any earlier edition)

Grade

Your numerical final grade will be based upon **two examinations (25% each), an independent project report (15%) and one Final Examination (35%)**. The examinations will be administered on the following dates.

	Exam 1
Thursday, February 25, 2021	
	Exam 2
Thursday, March 25, 2021	
	Independent Project
DUE at time of Exam 2	
	Final Exam
TBD during Finals week	

Grading formula: $.25(\text{exam 1} + 2) + .15(\text{Project}) + .35(\text{Final})$

If you miss an examination, you will receive a grade of zero that will be calculated into your final grade. There are no make-up examinations (except for illness or work). The following table will determine your letter final grade.

80% to 100%	A
75% to 80%	B+
70% to 74%	B
60% to 69%	C+
50% to 59%	C
40% to 49%	D
0% to 39%	F

Exam grades will not be curved. Exams will consist of multiple-choice and/or true-false questions, all of which will come directly from topics discussed in class and/or topics discussed in the textbook. All exams are closed book and closed notes. Summary sheets will not be permitted

Earth in Space (Phys 203) and Earth in Space Laboratory (Phys 203A) are independent courses. You can register for either one of these courses without being registered for the other course. Withdrawal from one course does not mean you must withdraw from the other course.

Academic Integrity

All students who cheat during an examination are in violation of the Academic Honor Code. All such students will automatically fail the course and will be reported to the Dean of Student Services so that further action may be taken. Examples of cheating during an examination include, but are not limited to, talking with another student, copying work from another student's examination, allowing another student to copy work from your own examination, or use of any materials besides the examination paper and a writing utensil.

Course Schedule

Week 1	January 19, 2021	introduction to Earth Science (Chapter One)
Week 2	January 26, 2021	physical geography, cartography, and topography review of physics and chemistry (Chapter Seven)
Week 3 ,	February 02, 2021	mineralogy (Chapter Seven) petrology (Chapter Seven)
Week 3	February 09, 2021	structure and composition of the geosphere (Chapter Two) the theory of plate tectonics (Chapter Four) orology (Chapter Six)
Week 4	February 16, 2021	seismology (Chapter Five) vulcanology (Chapter Six) paleogeology (Chapter Eight)
Week 5	February 23, 2021	introduction to the ocean (Chapter Thirteen) First examination (through Week 4)
Week 6	March 02, 2021	geological oceanography (Chapter Thirteen) chemical oceanography (Chapter Thirteen) biological oceanography (Chapter Thirteen)
Week 7	March 09, 2021	physical oceanography: ocean currents (Chapter Thirteen) physical oceanography: ocean waves (Chapter Thirteen) coasts and shores (Chapter Thirteen)
Tues+Thurs Week 8	March 16, 2021 March 23, 2021	spring break (no classes) ATMOSPHERE (ch 14) Second examination (Week 5-7)
Week 9	March 30, 2021	ATMOSPHERE (Ch 14) WEATHER (Ch.15)
Friday, Week 10,	April 2, 2021 April 06, 2021	Good Friday (no classes) CLIMATE (Ch.16)
Week 11	April 13, 2021	GLOBAL WARMING (Ch. 17)
Week 12	April 20, 2021	???
Week 13,	April 27, 2021	REVIEW,
Tuesday,	May 04, 2021	NO CLASS -- NJIT follows a Friday schedule
Wednesday.	May 05, 2021	reading day
Thursday.	May 06, 2021	reading day
FINALS	May 7-13, 2021	Final Examination (Cummulative, ~1/2 same as exams1-2 ~1/2 atmosphere, weather climate/climate change)